

CORONA

VISUAL CORONA PHOTOGRAPHS - 1840

CONN. LT. & PWR

Samp No.	Test Voltage	620kc			800kc			1000kc			1250kc			P
		Ferris	std.	S/F Ratio	F	S	S/F	F	S	S/F	F	S	S/F	
1	10	3000	4000	1.333	3000	3000	1.00	4200	3800	0.905	1600	1800	1.124	27
2	10	2600	3500	1.345	2000	2500	1.25	2900	3000	1.033	1300	1400	1.077	28
1	10	10	16	1.60	6	4	0.67	2	4	2.00	2	3.5	1.75	1
2	10	3	9	3.00	8	10	1.25	5	5	1.00	2.5	3.5	1.40	1
1	30	11000	22000	2.00	12500	10000	0.80	14000	20000	1.43	7000	8500	1.213	900
2	30	10000	14000	1.40	8000	16000	2.00	10000	14000	1.40	7000	8500	1.213	750
NP 1	30	10	25	2.50	6	16	2.67	10	20	2.00	8	8	1.00	
VP 2	30	10	30	3.00	16	50	3.13	12	25	2.08	2.5	4	1.60	

Carone

Car

7

7

7

7

10

10

10

10

5 kc		560 kc	
S	S/F	F	S / F
400	0.610	6	25 4.17
	0.750	10	35 3.50
5	2.50	7	14 7.57
5	2.50	3	12 4.00
5		1200	4000 3.33
1067		50	300 6.00
2.80		5	12 2.40
1.20		4	10 2.50

	1.33	1.00	0.905	1.124	0.610
	1.35	1.25	1.033	1.077	0.750
	1.60	0.67	2.000	1.750	2.500
	3.00	1.25	1.000	1.400	2.500
	2.00	0.80	1.430	1.213	0.670
	1.40	2.00	1.400	1.213	0.867
	2.50	2.67	2.000	1.000	2.800
	3.00	3.13	2.080	1.600	1.200
	<u>8 16.18</u>	<u>8 12.77</u>	<u>8 11.848</u>	<u>8 10.377</u>	<u>8 11.897</u>
ave.	2.02	1.59	1.481	1.297	1.48
max.	3.00	3.13	2.080	1.750	2.800
min.	1.33	0.67	0.905	1.000	0.610

Plan

NP

$$9.89 - 6 \cdot 1.65$$

$$8.39 - 6 \cdot 1.40$$

$$7.80 - 5 \cdot 1.56$$

$$7.17 - 6 \cdot 1.19$$

$$8.71 - 6 \cdot 1.45$$

$$6.74 - 6 \cdot 1.12$$

$$7.19 - 6 \cdot 1.20$$

$$7.27 - 6 \cdot 1.21$$

$$4.60 - 6 \cdot 0.77$$

$$3.60 - 4 \cdot 0.90$$

$$71.36 - 57$$

$$14.58 - 6 \cdot 2.43$$

$$9.09 - 4 \cdot 2.27$$

$$13.14 - 6 \cdot 2.19$$

$$8.61 - 5 \cdot 1.72$$

$$12.19 - 6 \cdot 2.03$$

$$8.21 - 6 \cdot 1.54$$

$$9.42 - 6 \cdot 1.57$$

$$13.18 - 6 \cdot 2.19$$

$$12.68 - 6 \cdot 2.11$$

$$9.25 - 4 \cdot 2.31$$

$$110.35 - 55$$

2.35

1.96

1.79

1.88

2.21

$$\begin{array}{r} 1.25 \\ 57 \overline{) 71.36} \\ \underline{57} \\ 143 \\ \underline{114} \\ 296 \\ \underline{285} \\ 11 \end{array}$$

$$\begin{array}{r} 2.01 \\ 55 \overline{) 110.35} \\ \underline{110} \\ 35 \end{array}$$

$$\begin{array}{r} 1.91 \\ 22 \overline{) 41.95} \\ \underline{22} \\ 199 \\ \underline{198} \\ 15 \end{array}$$

$$\begin{array}{r} 1.67 \\ 22 \overline{) 36.72} \\ \underline{22} \\ 147 \\ \underline{132} \\ 152 \end{array}$$

$$\begin{array}{r} 1.49 \\ 24 \overline{) 35.85} \\ \underline{24} \\ 118 \\ \underline{96} \\ 225 \\ \underline{216} \\ 9 \end{array}$$

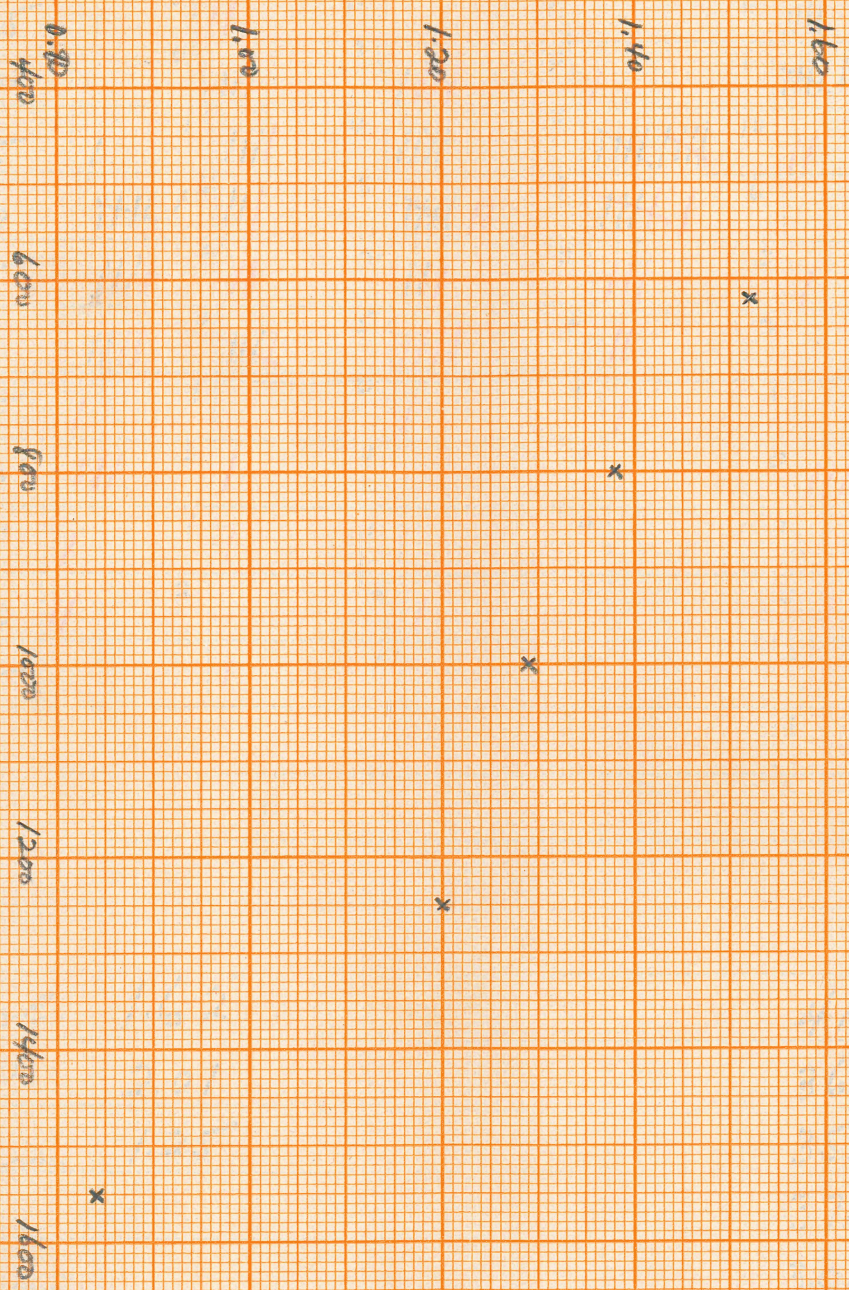
$$\begin{array}{r} 1.54 \\ 24 \overline{) 37.06} \\ \underline{24} \\ 130 \\ \underline{120} \\ 106 \\ \underline{96} \\ 10 \end{array}$$

$$\begin{array}{r} 1.57 \\ 2.0 \overline{) 3.013} \\ \underline{2.0} \\ 13 \end{array}$$

Ratio	Stoddard Ferris	Total	NP	Plain
0.50 - 0.75	1	6	2	4
0.76 - 1.00		15	5	10
1.01 - 1.25		20	3	17
1.26 - 1.50		22	6	16
1.51 - 1.75		13	8	5
1.76 - 2.00		15	10	5
2.01 - 2.25		3	3	0
2.26 - 2.50		8	8	0
2.51 - 2.75		2	2	0
2.76 - 3.00		4	4	0
3.01 - 3.25	1	1	1	0
3.26 - 3.50		0	0	0
3.51 - 3.75	1	1	1	0
3.75 - 4.00	1	1	1	0
4.01 - 4.25		0	0	0
4.26 - 4.50		0	0	0
4.51 - 4.75		0	0	0
4.76 - 5.00	1	1	1	0
		112	55	57

Pl. draw in pencil only

ratio



0.5
0.7
1.0
1.2
1.5
1.7
2.0
2.2
2.5
2.7
3.0

5
a
a

freq
rat

	kc		620	800	1000	1250	1550	Total	NP	Plain
0.50 - 0.75		0		2				4	6	2 4
0.75 - 1.00		0		3		4		7	15	5 10
1.00 - 1.25	1	1		4		4		10	21	4 17
1.25 - 1.50		6		3		7		6	22	6 16
1.50 - 1.75		4		2		3		3	13	8 5
1.75 - 2.00		4		5		4		2	15	10 5
2.00 - 2.25	1	1		0	1	1	1	0	3	3 0
2.25 - 2.50		3	1	1		0	0		8	8 0
2.50 - 2.75	1	1	1	1		0	0	0	2	2 0
2.75 - 3.00		2		0	1	1	0	1	4	4 0
3.00 - 3.25			1	1		0	0	0	1	1 0
						5.00	4.00	1	2	2 0
								112	55	57

Grand are. 1.62 41.95

are NP 2.01 36.72

are Plain 1.25 35.85

37.06

Plain 30.13

freq kc. 620 800 1000 1250 1550 112 | 181.71 | 1.62

ratio 1.52 1.38 1.29 1.20 0.84

697

672

251

Peak readings

ratios	all	NP	Plain
max	10.00	10.00	3.28
min	1.28	1.56	1.28
ave	2.84	3.13	2.34

Instr. Cat. No.	Test Voltage	Frequency kc.	Ferris uV	Stoddart uV	Ratio $\frac{\text{Stoddart}}{\text{Ferris}}$	Stoddart Peak uV.	Ratio $\frac{\text{Peak Stoddart}}{\text{Peak Ferris}}$
1044	30	620	11000	22000	2.00	54000	2.45
	34.5		16000	30000	1.88	58000	1.93
	28		10000	16000	1.60	35000	2.19
	30		10000	14000	1.40	35000	2.50
	31		11000	16000	1.45	40000	2.50
	37.5		16000	25000	1.56	50000	2.00
1044NP	30		10	25	2.50 ✓	75	3.00
	33		30	70	2.33 ✓	170	2.43
	42		250	500	2.00	1000	2.00
	30		10	30	3.00 ✓	90	3.00
	38.5		80	200	2.50 ✓	510	2.55
	42.5		200	450	2.25 ✓	900	2.00
77	10		3000	4000	1.33	7000	1.75
	13.5		4400	5500	1.25	12000	2.18
	15		5500	8000	1.45	21000	2.63
	10		2600	3500	1.35	7000	2.00
	14		4000	5500	1.37	18000	3.28
	15.5		5500	9000	1.64	25000	2.78
77NP	10		10	16	1.60	56	3.50
	24.5		2200	4000	1.82	7500	1.87
	10		3	9	3.0 ✓	50	5.56
	34		6000	16000	2.67 ✓	65000	4.06

41.95

ave 1.91

ave. 2.64
max 5.56
min 1.75

1044	30	800	12500	10000	0.80 ^x	25000	2.50
	31		16000	16000	1.00	33000	2.06
	30		12500	25000	2.00	32000	1.28
	25.5		8000	16000	2.00	50000	3.12
	35		16000	32000	2.00	58000	1.81

1044NP	30		6	16	2.67 [✓]	45	2.81
	43		125	200	1.60	600	3.00
	46		200	400	2.00	700	1.75
	30		16	50	3.12 [✓]	310	6.20 [✓]
	42		100	200	2.00	550	2.75
	46		200	350	1.75	900	2.57

77	10		3000	3000	1.00	6000	2.00
	12.2		4000	5500	1.37	7500	1.36
	16		5500	6000	1.09	10000	1.67
	10		2000	2500	1.25	5500	2.20
	14.5		4000	5500	1.37	9000	1.64
	17		5500	6000	1.09	11000	1.83

77NP	10		6	4	0.67 ^x	23	5.75 [✓]
	19.6		7	5	0.72 ^x	—	—
	10		8	10	1.25	28	2.80
	30		14	50	3.57 [✓]	300	6.00 [✓]
	31		50	120	2.40 [✓]	600	5.00 [✓]

36.72

ave 1.67

ave 2.86
high 6.20
low 1.28

1044	30	1000	14000	20000	1.43	—	
	27.5		10000	16000	1.60	—	
	33.5		16000	23000	1.44	—	
	30		10000	14000	1.40	—	
	31		12500	16000	1.28	—	
	34.5		16000	25000	1.56	—	
1044NP	30		10	20	2.00	80	4.00
	38		100	200	2.00	400	2.00
	40.7		200	300	1.50	810	2.70 ^x
	30		12	25	2.08	✓ 110	4.40
	38		70	200	2.86	✓ 430	2.15
	40		200	350	1.75	850	2.42
77	10		4200	3800	0.91 ^x	7000	1.84
	13.5		5500	6000	1.09	13000	2.17
	13.0		4500	5500	1.22	12500	2.27
	10		2900	3000	1.03	7000	2.33
	14		5500	7000	1.27	20000	2.86
	13		4500	5500	1.22	17000	3.09
77NP	10		2	4	2.00	9	2.25
	23		3000	4500	1.50	8000	1.78
	20.5		6	5	0.83 ^x	10	2.00
	10		5	5	1.00	45	9.00 ^x
	31		8.5	7.5	0.88 ^x	17	2.27
	32		5000	10000	2.00	32000	3.20

35.85
ave 1.49

ave 2.93
max 9.00
min 1.78

1044	30	1250	7000	8500	1.21	21000	2.47
	40.5		13000	16000	1.23	36000	2.25
	45.5		16000	19000	1.19	50000	2.63
	30		7000	8500	1.21	20000	2.35
	39.5		13000	16000	1.23	35000	2.19
	47		16000	18000	1.12	50000	2.78
1044NP	30		8	8	1.00	35	4.38 ^x
	41		100	200	2.00	550	2.75
	42.5		200	300	1.50	900	3.00
	30		2.5	4	1.60	40	10.00
	42		110	200	1.82	500	2.50
	44		200	300	1.50	750	2.50
77	10		1600	1800	1.12	3400	1.89
	16		4200	5500	1.31	15000	2.73
	17.5		5500	7000	1.27	16000	2.29
	10		1300	1400	1.08	3700	2.64
	17		4500	5500	1.22	17000	3.09
	18		5500	7000	1.27	20000	2.86
77NP	10		2.5	3.5	1.40	9	2.57
	32		400	2000	5.00 ✓	18000	9.00
	31		80	180	2.25 ✓	2800	1.56
	10		2	3.5	1.75	12	3.43
	22		3.5	4	1.14	—	—
	22.5		1100	1800	1.64	4500	2.50

37.66
 are 1.54
 are 3.23
 max 10.00
 min 1.56

1044	30	1550	9000	6000	0.67 [*]	16000	2.67
	38		16000	12000	0.75 [*]	28000	2.33
	47		20000	16000	0.80 [*]	32000	2.00
	30		7500	6500	0.87 [*]	16000	2.46
	45		16000	12000	0.75 [*]	30000	2.50
	55		21000	16000	0.76 [*]	35000	2.19

1044NP	30	5	14	2.80 [✓]	30	2.14
	43	170	200	1.18	450	2.25
	44	200	200	1.00	600	3.00
	30	2.5	3	1.20	8	2.67
	44.5	50	200	4.00 [✓]	600	3.00
	49	200	500	2.50 [✓]	1000	2.00

77	10	1300	1100	0.85 [*]	2500	2.27
	19.5	5500	5500	1.00	18000	3.28
	10	1200	900	0.75 [*]	2000	2.22
	19.5	5500	5500	1.00	16000	2.91

77NP	10	1	2.5	2.50 [✓]	45	1.80
	24	800	1400	1.75	2500	1.79
	10	1	2.5	2.50 [✓]	8	3.20
	35	2000	5000	2.50 [✓]	16000	3.20

10.5
30.13

are 1.51

are 2.49
max 3.28
min 1.79

Plain

ATP

1357 -6

1462 -6

1077 -5

1070 -6

1456 -6

1467 -6

1550 -6

1415 -6

1068 -4

119522 51

1498 -6

1499 -4

1908 -6

1955 -4

1767 -6

2050 -6

1613 -6

1906 -5

1506 -6

999 -4

167506 53

234
51) 119.22
102
172
153
192

3.13
53) 167.01
159
80
53
171

77'

77NP

1044

1044NP

133	135	160	300	200	140	250	300
100	125	067	125	080	200	267	313
091	103	200	100	143	140	200	208
112	108	175	140	121	121	100	160
061	075	250	250	067	087	280	120
<u>5492</u>	<u>5546</u>	<u>5852</u>	<u>59.15</u>	<u>56.11</u>	<u>56.88</u>	<u>510.97</u>	<u>511.01</u>
0.99	1.09	1.70	1.83	1.22	1.38	2.19	2.20

1.33	1.35	2.50	3.00	2.00	2.00	2.80	3.13
0.61	0.75	0.67	1.00	0.67	0.87	1.00	1.20

F 8.
135 mm lens (f.f.)
50 mm.

Picture No.	Time	KV.	Setting of 18-1840	Dry
1	2 min	211	" " 18	"
2	4 "	211	" " 18	"
3	2 min	211	Setting of 17-1800	"
4	4 "	211	" " 17	"
5	2 min	Flash light on p.c. - (Dry)		17
6	2 "	Wet.		17
7	2 "	" light on p.c. Wet		17
8	2 "	Wet		18





52104-3



2

E 2104-2



Ε 2104-4



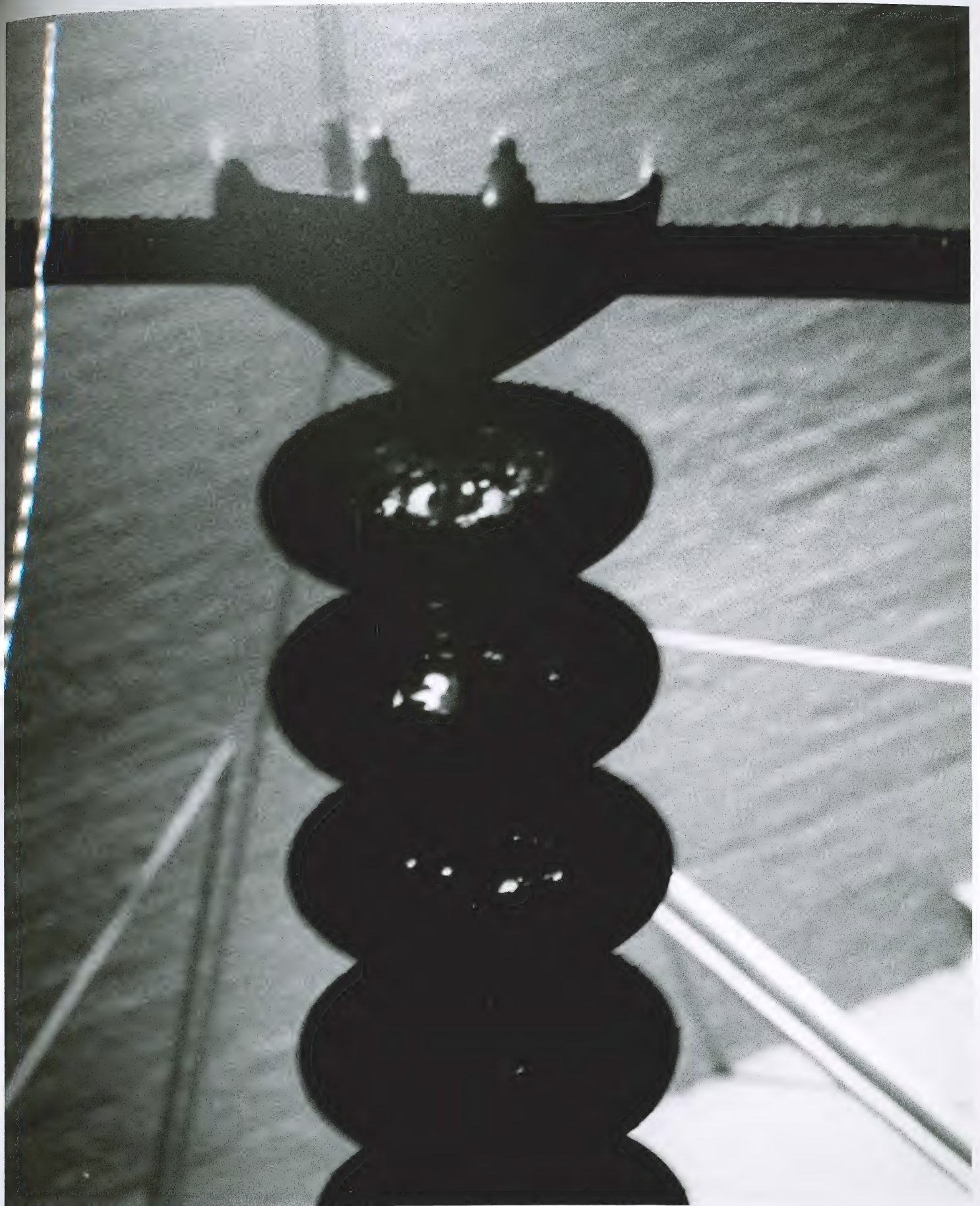
ε 3104-5



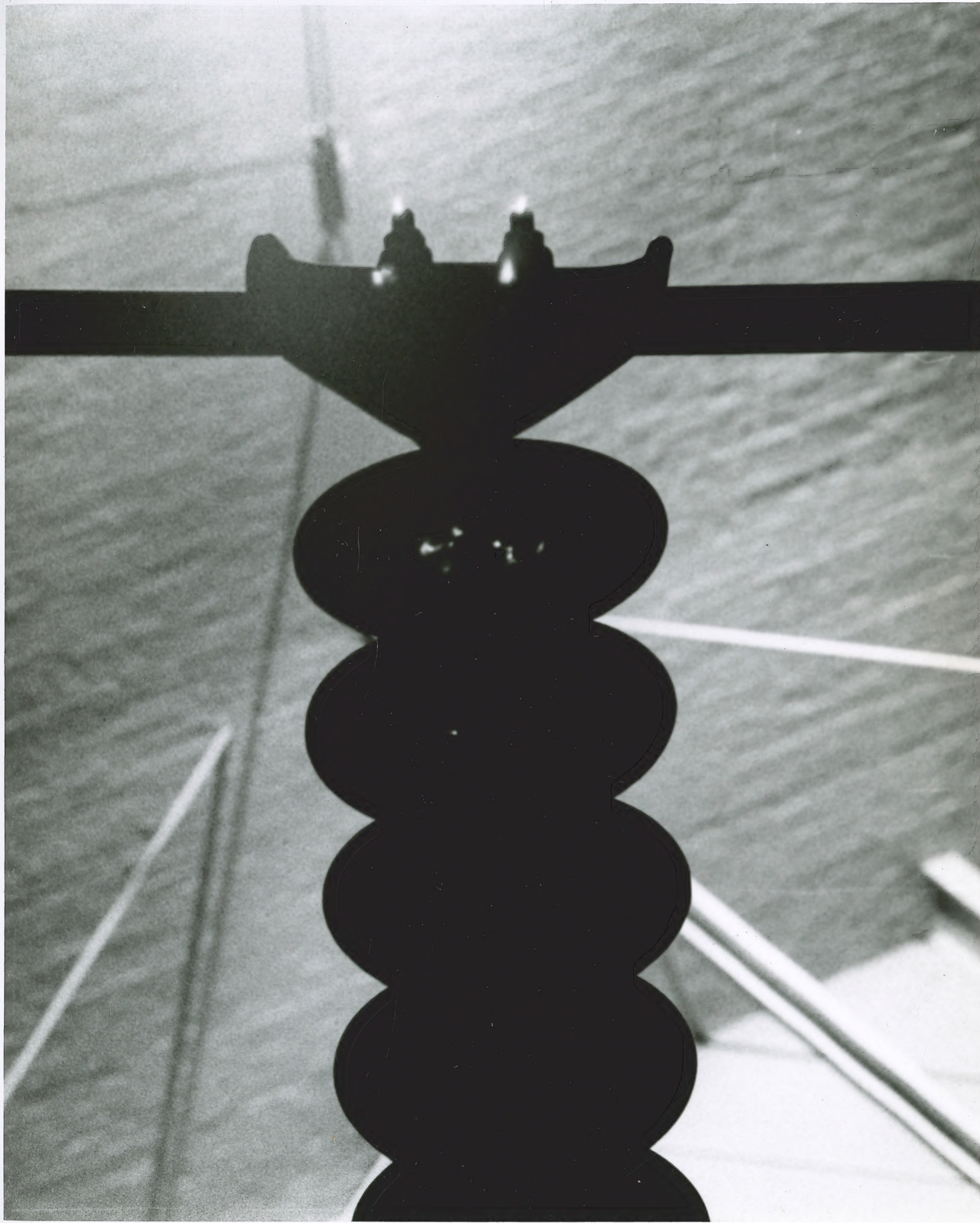
5-60123



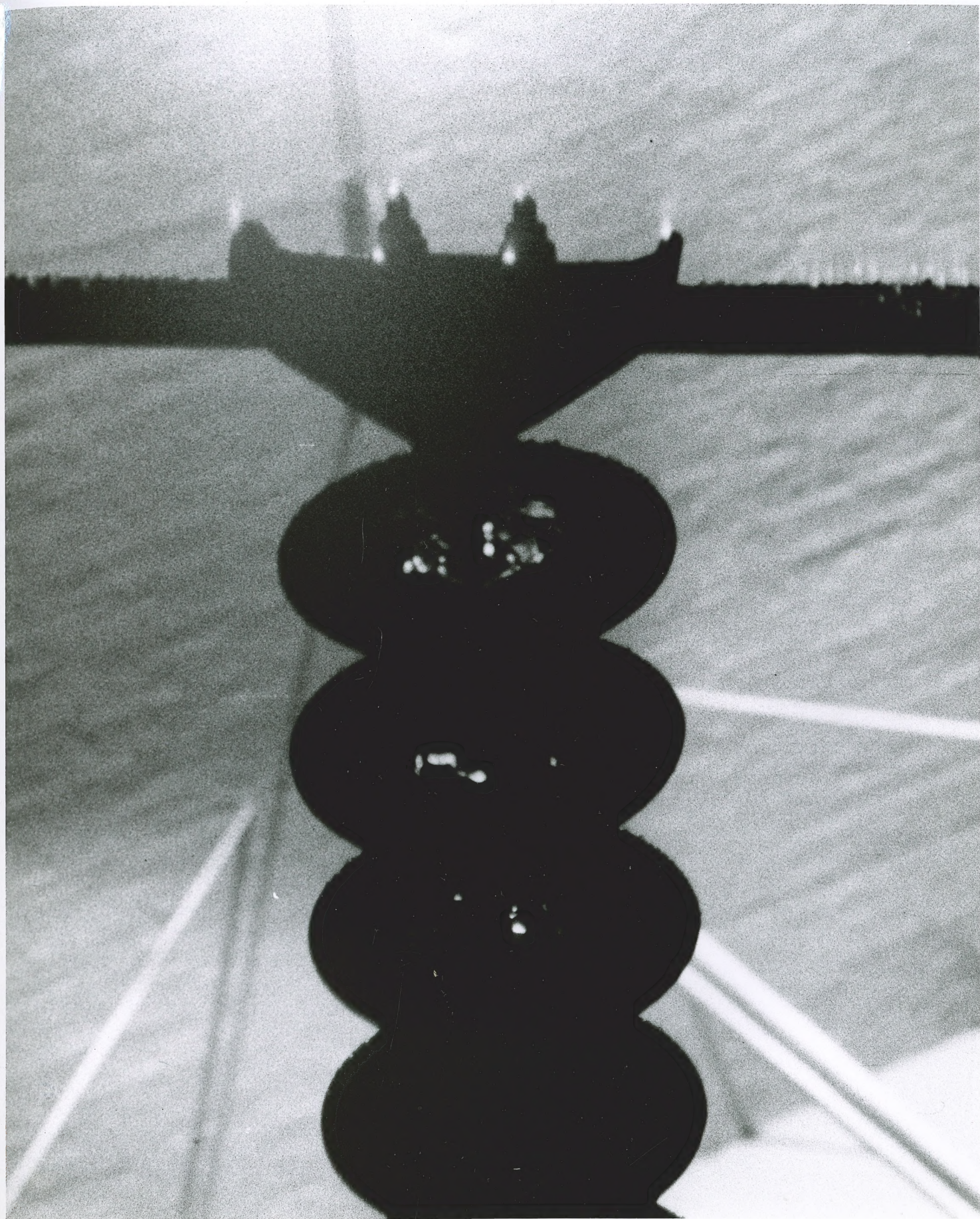
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9-60123



E2104-1



8

8-40123